

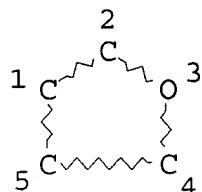
B. Dentz Oct. 31, 1955

S.N. 081425022 applicant  
Bertenshaw

=> stru

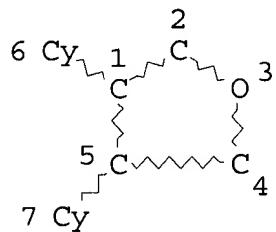
ENTER NAME OF STRUCTURE TO BE RECALLED (NONE) :.

ENTER (DIS), GRA, NOD, BON OR ?:gra r5,nod 3 o,dis

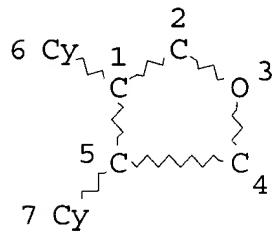


Search for ~~X~~ cpts.  
wherein X is H

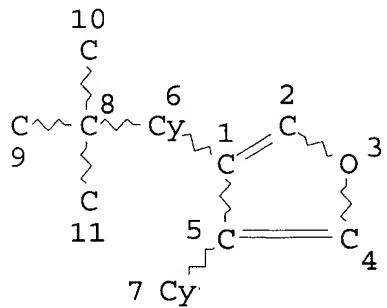
ENTER (DIS), GRA, NOD, BON OR ?:gra 1 c1,5 c1,nod 6 7 cy,dis



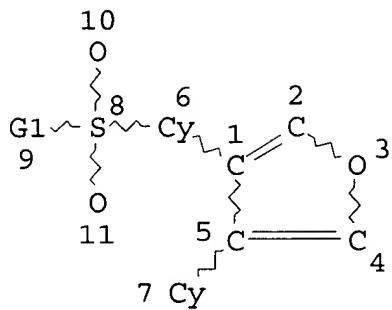
ENTER (DIS), GRA, NOD, BON OR ?:ggc 6 7 uns,dis



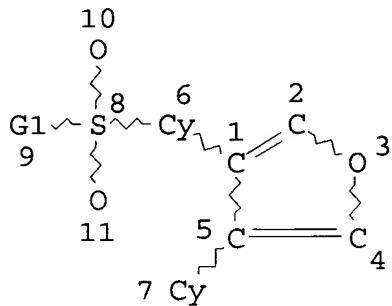
ENTER (DIS), GRA, NOD, BON OR ?:bon 1-2 4-5 de,gra 6 c2,8 c1,8  
c1,dis



ENTER (DIS), GRA, NOD, BON OR ?:nod 8 s,10 11 o,9 g1,var  
g1=c/n,dis



VAR G1=C/N  
 ENTER (DIS), GRA, NOD, BON OR ?:rsp,dis sia



VAR G1=C/N  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS UNS AT 6  
 GGCAT IS UNS AT 7  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RSPEC I  
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
 ENTER (DIS), GRA, NOD, BON OR ?:end  
 L1 STRUCTURE CREATED

=>  
 => s 11  
 SAMPLE SEARCH INITIATED 11:10:58  
 SAMPLE SCREEN SEARCH COMPLETED - 898 TO ITERATE  
 100.0% PROCESSED 898 ITERATIONS 0  
 ANSWERS  
 SEARCH TIME: 00.00.21  
 FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 16164 TO 19756

PROJECTED ANSWERS:

0 TO

0

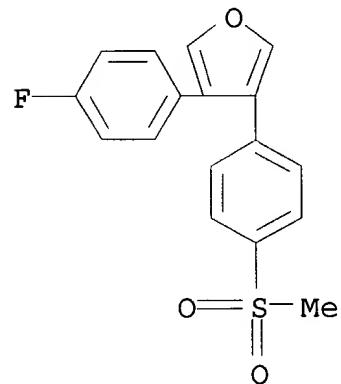
L2 0 SEA SSS SAM L1

=> s 11 ful  
FULL SEARCH INITIATED 11:12:32  
SCREENING  
SCREENING  
SCREENING  
FULL SCREEN SEARCH COMPLETED - 17680 TO ITERATE 1  
66.1% PROCESSED 11681 ITERATIONS  
ANSWERS 1  
96.7% PROCESSED 17100 ITERATIONS 1  
ANSWERS 1  
99.5% PROCESSED 17593 ITERATIONS 1  
ANSWERS 1  
100.0% PROCESSED 17680 ITERATIONS 1  
ANSWERS 1  
SEARCH TIME: 00.01.48

L3 1 SEA SSS FUL L1

=> d sub bib abs

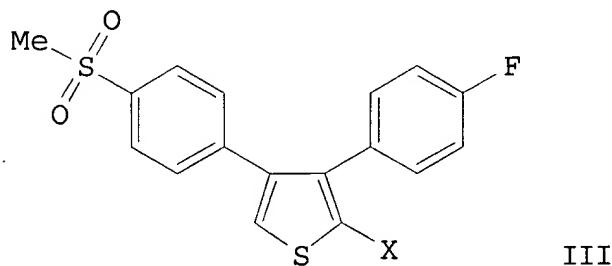
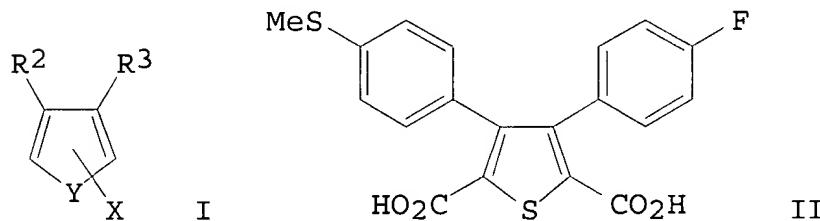
L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1995 ACS  
RN 157671-80-2 REGISTRY  
CN Furan, 3-(4-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-(9CI) (CA  
INDEX NAME)  
FS 3D CONCORD  
MF C17 H13 F O3 S  
SR CA  
LC STN Files: CA, CAPLUS, CAPREVIEWS



1 REFERENCES IN FILE CAPREVIEWS  
1 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 121:179484 CA  
TI Novel 3,4-diaryl thiophenes and analogs thereof having use  
as antiinflammatory agents  
IN Bertenshaw, Stephen R.; Collins, Paul W.; Penning, Thomas  
D.; Reitz,  
David B.; Rogers, Roland S.  
PA Searle, G. D., and Co., USA  
SO PCT Int. Appl., 96 pp.  
CODEN: PIXXD2  
PI WO 9415932 A1 940721  
DS W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI,  
GB, HU,  
JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL,  
PT, RO,  
RU, SD, SE, SK, UA, US, UZ, VN  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB,  
GR, IE,  
IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 94-US466 940114  
PRAI US 93-4822 930115  
DT Patent  
LA English  
GI



AB A class of 3,4-diaryl-substituted thiophene, furan, and  
pyrrole  
derivs. is disclosed, as well as pharmaceutical compns.  
contg. them,

and methods of using them to treat inflammation and related disorders. Compds. of particular interest are I [Y = S, O, NR1; R1 = H, lower alkyl; X = 1 or 2 substituents selected from a large group, esp. H, halo, lower alkoxy carbonyl, CO<sub>2</sub>H; R<sub>2</sub>, R<sub>3</sub> = (independently) aryl or heteroaryl, optionally substituted with 1 or more radicals such as sulfamyl, alkylsulfonyl, halo, lower alkoxy and lower alkyl] and pharmaceutically acceptable salts thereof. For example, S(CH<sub>2</sub>CO<sub>2</sub>Me)<sub>2</sub> was cyclized with 4-FC<sub>6</sub>H<sub>4</sub>COCOC<sub>6</sub>H<sub>4</sub>(SMe)-4 in THF-MeOH contg. NaOMe at 65.degree. to give 82% of a mixt. of regioisomeric thiophenedicarboxylic acid monoesters, which were saponified by NaOH in aq. THF-MeOH to give diacid II. Double decarboxylation of II with Cu in quinoline at 180-200.degree. (89%) and S-oxidn. with MCPBA gave title compd. III (X = H), which was brominated by Br<sub>2</sub> in AcOH to give III (X = Br) plus the corresponding 2,5-dibromo compd. III (X = Br) at 10 mg/kg orally gave 30% inhibition in the carrageenan-induced rat-paw edema test. Data include 15 synthetic examples, rat-paw edema and analgesia tests, and in vitro tests for cyclooxygenase (I and II) and TXB<sub>2</sub> activity.